

DaimlerChrysler AG  
Stuttgart

Patent Claims

- add  
a' 5
1. Vehicle air-conditioning device (10) having at least one control element (32) which supplies a prescribed value to the air-conditioning control unit (1), a state of flow being provided by an air speed and a degree of turbulence of the air, which can be influenced by the strength of the fan, distribution of air to the outlet nozzles, the outlet direction to the outlet nozzles and further actuators which have an effect on the state of flow, and a thermal state being provided by the distribution of temperature and effect of radiation in the vehicle interior, characterized in that the at least one control element is used to prescribe a state of flow desirable for the occupant and a thermal state.
2. Vehicle air-conditioning device according to Claim 1, characterized in that a draught sensitivity ranging from very draught-sensitive to not draught-sensitive can be prescribed at the control element which supplies a prescribed value for the state of flow.
3. Vehicle air-conditioning device according to Claims 1 and 2, characterized in that two control elements (30, 31) are provided which prescribe the state of flow by draught sensitivity and the thermal comfort by the comfort temperature, at least one automatic mode for the air-conditioning device being selected in accordance with both prescribed values.
4. Vehicle air-conditioning device according to Claims 1 to 3, characterized in that the distribution of the air-conditioned air to the individual nozzles and the air outlet direction is set by the prescribed values of comfort temperature and draught sensitivity.

5. Vehicle air-conditioning device according to Claims 1 to 4, characterized in that in the case of a multi-zone air-conditioning system separate control panels are provided for each zone.

5

6. Vehicle air-conditioning device according to Claims 1 to 5, characterized in that a number of control panels are provided for the settings for the different body regions.

10

7. Vehicle air-conditioning device according to Claims 1 to 5, characterized in that settings for different body regions are possible on the control panel (32) with a selection function, which settings can in each case be stored.

15

8. Vehicle air-conditioning device according to Claims 1 to 7, characterized in that a display means for the control characteristics of the system comprising the components of the air-conditioning system, the air ducts, the interior and the occupants is provided.

20

9. Vehicle air-conditioning device according to Claims 1 to 8, characterized in that, in order to set the discharge direction with a manual adjustment of the air-guiding grates of one discharge nozzle, the adjustment of the air-guiding grates of the other discharge nozzles takes place in a connected manner.

30

10. Vehicle air-conditioning device (10) according to Claims 1 to 8, characterized in that the prescribed values of the comfort temperature and draught sensitivity prescribe manipulated variables for the vehicle openings.

35

11. Vehicle air-conditioning device (10) according to Claims 1 to 9, characterized in that the pre-conditioning of the vehicle at the starting up of the

vehicle, together with the prescribed values of comfort temperature and draught sensitivity, are taken into consideration in the prescribing of the manipulated variables (9) of the vehicle air-conditioning device

5 (10).